



NATIONAL TRANSPORTATION SAFETY BOARD
Investigative Hearing

Washington Metropolitan Area Transit Authority Metrorail train 302 that encountered heavy smoke in the tunnel between the L'Enfant Plaza Station and the Potomac River Bridge on January 12, 2015

GROUP	H
EXHIBIT	
4	

Agency / Organization

District of Columbia

Title

Sample Radio Test Report

Tester	System	Talk Group	Station	Location	Time	Pass/Fail (P/F)	UpLink RSSI	DownLink RSSI	Comments/Issues
	P25		Friendship Heights <-> Tenleytown-AU	Tunnel	09:20	P			
Tenley town	P25		Tenleytown-AU	Platform end #1 inbound	09:19	P			
	P25		Tenleytown-AU	Platform end #1 inbound	09:18	P			
	P25		Tenleytown-AU	Middle of platform	09:18	P			
	P25		Tenleytown-AU	Platform end #2 outbound	09:20	P			CW-1/P @ 09:18
	P25		Tenleytown-AU	inside of Train	09:18	P			
	P25		Tenleytown <-> Van Ness	Tunnel	09:16	P			
Van Ness	P25		Van Ness	Platform end #1 inbound	09:15	P			
	P25		Van Ness	Platform end #1 inbound	09:15	P			
	P25		Van Ness	Middle of platform	09:15	P			
	P25		Van Ness	Platform end #2 outbound	09:17	P			
	P25		Van Ness	Platform end #2 outbound	09:17	P			CW-1/P @ 09:15
	P25		Van Ness <-> Cleveland Park	Tunnel	09:14	P			
Cleveland Park	P25		Cleveland Park	Platform end #1 inbound	09:13	P			
	P25		Cleveland Park	Platform end #1 inbound	09:13	P			
	P25		Cleveland Park	Middle of platform	09:13	P			
	P25		Cleveland Park	Platform end #2 outbound	09:14	P			
	P25		Cleveland Park	Platform end #2 outbound	09:12	P			CW-1/P @ 09:12
	P25		Cleveland Park <-> Woodley Park	Tunnel	09:12	P			
Woodley Park	P25		Woodley Park	Platform end #1 inbound	09:11	P			
	P25		Woodley Park	Platform end #1 inbound	09:11	P			
	P25		Woodley Park	Middle of platform	09:11	P			
	P25		Woodley Park	Platform end #2 outbound	09:12	P			CW-1/P @ 09:11
	P25		Woodley Park <-> Dupont Circle	Tunnel	09:10	P			
Dupont Circle	P25		Dupont Circle	Platform end #1 inbound	09:09	P			
	P25		Dupont Circle	Platform end #1 inbound	09:09	P			
	P25		Dupont Circle	Middle of platform	09:09	P			
	P25		Dupont Circle	Platform end #2 outbound	09:09	P			CW-1/P @ 09:09
	P25		Dupont Circle <-> Farragut North	Tunnel	09:08	P			
Farragut North	P25		Farragut North	Platform end #1 inbound	09:07	P			
	P25		Farragut North	Platform end #1 inbound	09:07	P			
	P25		Farragut North	Middle of platform	09:07	P			
	P25		Farragut North	Platform end #2 outbound	09:08	P			
	P25		Farragut North	Platform end #2 outbound	09:08	P			CW-1/P @ 09:08
	P25		Farragut North <-> Metro Center	Tunnel	09:07	P			

Metro Center	P25	Metro Center	Entrance #1 Inbound	09:30			
	P25	Metro Center	Platform end #1 Inbound	09:31			
	P25	Metro Center	Middle of platform	09:31			
	P25	Metro Center	Platform end #2 Outbound	09:32			
	P25	Metro Center	Entrance #2 Outbound	09:32			
	P25	Metro Center <-> Gallery Place	Tunnel	09:34	P		
Gallery Place	P25	Gallery Place	Entrance #1 Inbound (to Metro Center)	09:36	P		
	P25	Gallery Place	Platform end #1 Inbound (to Metro Center)	09:36	P		
	P25	Gallery Place	Middle of platform	09:36	P		
	P25	Gallery Place	Platform end #2 Outbound (to Judiciary Square)	09:37	P		
	P25	Gallery Place	Entrance #2 Outbound (to Judiciary Square)	09:37	P		
	P25	Gallery place <-> Judiciary Sq	Tunnel	09:37	P		
Judiciary Square	P25	Judiciary Square	Entrance #1 Inbound	09:38	P		
	P25	Judiciary Square	Platform end #1 Inbound	09:38	P		
	P25	Judiciary Square	Middle of platform	09:38	P		
	P25	Judiciary Square	Platform end #2 Outbound	09:39	P		
	P25	Judiciary Square	Entrance #2 Outbound	09:39	P		
	P25	Judiciary Sq <-> Union Station	Tunnel	09:39	P		
Union Station	P25	Union Station	Entrance #1 Inbound	09:40	P		
	P25	Union Station	Platform end #1 Inbound	09:41	P		
	P25	Union Station	Middle of platform	09:41	P		
	P25	Union Station	Platform end #2 Outbound	09:42	P		
	P25	Union Station	Entrance #2 Outbound	09:42	P		

CW-1/P @ 09:31

CW-1/P @ 09:37

CW-1/P @ 09:38

CW-1/P @ 09:41

TESTED BY: STEPHEN MATTHEW
VEEDA HARRIS

Green Line

Assumed direction: Green Belt -> Branch Ave. Outbound is towards Grant Ave. Inbound is towards Green Belt

05-29-2015

	Tester	System	Talk Group	Station	Location	Time	Pass/Fail (P/F)	UpLink RSSI	DownLink RSSI	Comments
Fort Totten		P25		West Hyattsville <-> Fort Totten	Tunnel	10:00	P			
		P25		Fort Totten	Entrance (Only One)	10:02	P			
		P25		Fort Totten	Platform end #1 inbound	10:02	P			
		P25		Fort Totten	Middle of platform	10:03	P			CW-1/P @ 10:02
		P25		Fort Totten	Platform end #2 outbound	10:03	P			
Georgia Ave		P25		Fort Totten <-> Georgia Ave	Tunnel	10:03	P			
		P25		Georgia Ave	Entrance (Only One)	10:05	P			
		P25		Georgia Ave	Platform end #1 inbound	10:06	P			
		P25		Georgia Ave	Middle of platform	10:06	P			CW-1/P @ 10:06
Columbia Heights		P25		Georgia Ave - Columbia Heights	Tunnel	10:10	P			
		P25		Columbia Heights	Entrance (Only One)	10:12	P			
		P25		Columbia Heights	Platform end #1 inbound	10:12	P			
		P25		Columbia Heights	Middle of platform	10:13	P			CW-1/P @ 10:13
U Street		P25		Columbia Heights <-> U Street	Tunnel	10:19	P			
		P25		U Street	Entrance #1 inbound	10:21	P			
		P25		U Street	Platform end #1 inbound	10:22	P			
		P25		U Street	Middle of platform	10:22	P			
		P25		U Street	Platform end #2 outbound	10:23	P			CW-1/P @ 10:22
Shaw - Howard U		P25		U Street <-> Shaw-Howard U	Tunnel	10:25	P			
		P25		Shaw-Howard U	Entrance #1 inbound	10:30	P			
		P25		Shaw-Howard U	Platform end #1 inbound	10:31	P			
		P25		Shaw-Howard U	Middle of platform	10:31	P			
		P25		Shaw-Howard U	Platform end #2 outbound	10:32	P			CW-1/P @ 10:31
Mt. Vernon Sq		P25		Shaw-Howard U <-> Mt. Vernon Sq	Tunnel	10:39	P			
		P25		Mt. Vernon Sq	Entrance #1 inbound	10:40	P			
		P25		Mt. Vernon Sq	Platform end #1 inbound	10:41	P			
		P25		Mt. Vernon Sq	Middle of platform	10:41	P			
		P25		Mt. Vernon Sq	Platform end #2 outbound	10:42	P			CW-1/P @ 10:42
	P25		Mt. Vernon Sq <-> Gallery Place/Chinatown	Tunnel	10:43	P				

GREEN LINE

05-29-2015

TESTED BY: STEPHEN MATTHEW
VEEDA HARRIS

Gallery Place	P25	Gallery Place	Entrance #1 inbound (towards Mt Vernon)	10:45	P			
	P25	Gallery Place	Platform end #1 inbound	10:45	P			
	P25	Gallery Place	Middle of platform	10:46	P			
	P25	Gallery Place	Platform end #2 outbound	10:46	P		CW-1/P @ 10:46	
	P25	Gallery Place	Entrance #2 outbound (towards Navy Archives)	10:47	P			
	P25	Gallery place <-> National Archives	Tunnel	10:55	P			
Navy Archives	P25	Navy Archives	Entrance (Only One)	10:55	P			
	P25	Navy Archives	Platform end #1 inbound	10:56	P		CW-1/P @ 10:56	
	P25	Navy Archives	Middle of platform	10:56	P			
	P25	Navy Archives	Platform end #2 outbound	10:56	P			
	P25	Navy Archives <-> L' Enfant Plaza	Tunnel	10:57	P			
L' Enfant Plaza	P25	L' Enfant Plaza	Entrance #1 inbound (towards Navy Archives)	10:59	P			
	P25	L' Enfant Plaza	Platform end #1 inbound	10:59	P		CW-1/P @ 11:01	
	P25	L' Enfant Plaza	Middle of platform	11:00	P			
	P25	L' Enfant Plaza	Platform end #2 outbound	11:01	P			
	P25	L' Enfant Plaza	Entrance #2 outbound (towards Waterfront)	11:01	P			
	P25	L' Enfant Plaza <-> Waterfront	Tunnel	11:10	P			
Waterfront	P25	Waterfront	Entrance (Only One)	11:11	P			
	P25	Waterfront	Platform end #1 inbound	11:11	P		CW-1/P @ 11:12	
	P25	Waterfront	Middle of platform	11:12	P			
	P25	Waterfront	Platform end #2 outbound	11:13	P			
	P25	Waterfront <-> Navy Yard - Ballpark	Tunnel	11:13	P			
Navy Yard	P25	Navy Yard - Ballpark	Entrance #1 inbound	11:15	P			
	P25	Navy Yard - Ballpark	Platform end #1 inbound	11:18	P		CW-1/P @ 11:22	
	P25	Navy Yard - Ballpark	Middle of platform	11:20	P			
	P25	Navy Yard - Ballpark	Platform end #2 outbound	11:22	P			
	P25	Navy Yard - Ballpark	Entrance #2 outbound	11:25	P			
	P25	Navy Yard - Ballpark <-> Anacostia	Tunnel	11:39	P			
Anacostia	P25	Anacostia	Entrance #1 inbound	11:40	P			
	P25	Anacostia	Platform end #1 inbound	11:41	P		CW-1/P @ 11:43	
	P25	Anacostia	Middle of platform	11:41	P			
	P25	Anacostia	Platform end #2 outbound	11:43	P			
	P25	Anacostia	Entrance #2 outbound	11:44	P			
	P25	Anacostia <-> Congress Heights	Tunnel	11:55	P			

GREEN LINE

05-29-2015

TESTED BY: STEPHEN NIATHEL
VEEDA HARRIS

Congress Heights	P25	Congress Heights	Entrance (Only On)	11:57	P			
	P25	Congress Heights	Platform end #1 inbound	11:57	P			
	P25	Congress Heights	Middle of platform	11:58	P			
	P25	Congress Heights	Platform end #2 outbound	11:58	P			CW-1/P @ 11:58
	P25	Congress Heights	Entrance (Only On)	11:59	P			
	P25	Congress Heights <-> Southern Ave	Tunnel	12:03	P			

TESTED By: CLYDE WILSON
JAMES WILLEAMS

10F3

Orange Line

Assumed direction: Vienna ->
New Carrollton. Outbound is
towards Vienna. Inbound is
towards New Carrollton.

Date: 05-29-2015

	Tester	System	Talk Group	Station	Location	Time	Pass/Fail (P/F)	UpLink RSSI	DownLink RSSI	Comments/Issues
	cw	P25		Rosslyn <-> Foggy Bottom	Tunnel	9:47	P			good
Foggy Bottom - GWU	cw	P25		Foggy Bottom	Entrance (Only One)	9:50	P			good
	cw	P25		Foggy Bottom	Platform end #1 inbound	9:50	P			good
	cw	P25		Foggy Bottom	Middle of platform	9:50	P			good
	cw	P25		Foggy Bottom	Platform end #2 outbound	9:50	P			good
	cw	P25		Foggy Bottom <-> Farragut West	Tunnel	9:53	P			good
Farragut West	cw	P25		Farragut West	Entrance #1 Inbound	9:54	P			good
	cw	P25		Farragut West	Platform end #1 inbound	9:54	P			good
	cw	P25		Farragut West	Middle of platform	9:54	P			good
	cw	P25		Farragut West	Platform end #2 outbound	9:55	P			good
	cw	P25		Farragut West	Entrance #2 outbound	9:55	P			good
	cw	P25		Farragut West - McPherson Sq	Tunnel	9:58	P			good
McPherson Sq	cw	P25		McPherson Sq	Entrance #1 Inbound	10:00	P			good
	cw	P25		McPherson Sq	Platform end #1 inbound	10:00	P			good
	cw	P25		McPherson Sq	Middle of platform	10:00	P			good
	cw	P25		McPherson Sq	Platform end #2 outbound	10:01	P			good
	cw	P25		McPherson Sq	Entrance #2 outbound	10:01	P			good
	cw	P25		McPherson Sq <-> Metro Center	Tunnel	10:05	P			good
Metro Center	cw	P25		Metro Center	Entrance #1 Inbound (towards federal triangle)	10:06	P			good
	cw	P25		Metro Center	Platform end #1 inbound	10:06	P			good
	cw	P25		Metro Center	Middle of platform	10:06	P			good
	cw	P25		Metro Center	Platform end #2 outbound	10:07	P			good
	cw	P25		Metro Center	Entrance #2 outbound (towards McPherson Sq)	10:07	P			good
	cw	P25		Metro Center <-> Federal Triangle	Tunnel	10:10	P			good
Federal Triangle	cw	P25		Federal Triangle	Entrance (Only One)	10:12	P			good
	cw	P25		Federal Triangle	Platform end #1 inbound	10:13	P			good
	cw	P25		Federal Triangle	Middle of platform	10:13	P			good
	cw	P25		Federal Triangle	Platform end #2 outbound	10:13	P			good
	cw	P25		Federal Triangle <-> Smithsonian	Tunnel	10:18	P			good
Smithsonian	cw	P25		Smithsonian	Entrance #1 Inbound	10:19	P			good
	cw	P25		Smithsonian	Platform end #1 inbound	10:19	P			good
	cw	P25		Smithsonian	Middle of platform	10:19	P			good
	cw	P25		Smithsonian	Platform end #2 outbound	10:20	P			good
	cw	P25		Smithsonian	Entrance #2 outbound	10:20	P			good

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ORANGE LINE

05-29-2015

TESTED By: CLYDE WILSON
JAMES WILLIAMS

	Tester	System	Talk Group	Station	Location	Time	Pass/Fail (P/F)	UpLink RSSI	DownLink RSSI	Comments/Issues
	cw	P25		Smithsonian <-> L' Enfant Plaza	Tunnel	10:22	P			good
L' Enfant Plaza	cw	P25		L' Enfant Plaza	Entrance #1 Inbound (towards Federal Center)	10:22	P			good
	cw	P25		L' Enfant Plaza	Platform end #1 inbound	10:22	P			good
	cw	P25		L' Enfant Plaza	Middle of platform	10:23	P			good
	cw	P25		L' Enfant Plaza	Platform end #2 outbound	10:23	P			good
	cw	P25		L' Enfant Plaza	Entrance #2 outbound (towards Smithsonian)	10:23	P			good
	cw	P25		L' Enfant Plaza <-> Federal Center SW	Tunnel	10:27	P			good
Federal Center SW	cw	P25		Federal Center SW	Entrance (Only One)	10:28	P			good
	cw	P25		Federal Center SW	Platform end #1 inbound	10:29	P			good
	cw	P25		Federal Center SW	Middle of platform	10:29	P			good
	cw	P25		Federal Center SW	Platform end #2 outbound	10:29	P			good
	cw	P25		Federal Center SW <-> Capitol South	Tunnel	10:31	P			good
Capitol South	cw	P25		Capitol South	Entrance (Only One)	10:32	P			good
	cw	P25		Capitol South	Platform end #1 inbound	10:32	P			good
	cw	P25		Capitol South	Middle of platform	10:32	P			good
	cw	P25		Capitol South	Platform end #2 outbound	10:32	P			good
	cw	P25		Capitol South <-> Eastern Market	Tunnel	10:34	P			good
Eastern market	cw	P25		Eastern Market	Entrance (Only One)	10:36	P			good
	cw	P25		Eastern Market	Platform end #1 inbound	10:37	P			good
	cw	P25		Eastern Market	Middle of platform	10:37	P			good
	cw	P25		Eastern Market	Platform end #2 outbound	10:37	P			good
	cw	P25		Eastern Market <-> Potomac Ave	Tunnel	10:39	P			good
Potomac Ave	cw	P25		Potomac Ave	Entrance (Only One)	10:41	P			good
	cw	P25		Potomac Ave	Platform end #1 inbound	10:42	P			good
	cw	P25		Potomac Ave	Middle of platform	10:42	P			good
	cw	P25		Potomac Ave	Platform end #2 outbound	10:42	P			good
	cw	P25		Potomac Ave <-> Stadium Armory	Tunnel	10:45	P			good
Stadium Armory	cw	P25		Stadium Armory	Entrance #1 Inbound	10:46	P			good
	cw	P25		Stadium Armory	Platform end #1 inbound	10:47	P			good
	cw	P25		Stadium Armory	Middle of platform	10:47	P			good
	cw	P25		Stadium Armory	Platform end #2 outbound	10:48	P			good
	cw	P25		Stadium Armory	Entrance #2 outbound	10:48	P			good
	cw	P25		Stadium <-> Minnesota Ave	Tunnel	10:49	P			good

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ORANGE LINE

05-29-2015

TESTED By: CLYDE WILSON
JAMES WILLIAMS

	Tester	System	Talk Group	Station	Location	Time	Pass/Fail (P/F)	UpLink RSSI	DownLink RSSI	Comments/Issues
Minnesota Ave	CW	P25	10 INC 22 / CW	Minnesota Ave	Entrance #1 Inbound	10:52	P			Likely above ground
	CW	P25		Minnesota Ave	Platform end #1 Inbound	10:52	P			Likely above ground
	CW	P25		Minnesota Ave	Middle of platform	10:52	P			Likely above ground
	CW	P25		Minnesota Ave	Platform end #2 outbound	10:53	P			CW @ 10:53 Likely above ground
	CW	P25		Minnesota Ave	Entrance #2 outbound	10:53	P			Likely above ground
	CW	P25		Minnesota Ave <-> Deanwood	Tunnel	10:55	P			Likely above ground
Deanwood	CW	P25		Deanwood	Entrance #1 Inbound	10:56	P			Likely above ground
	CW	P25		Deanwood	Platform end #1 Inbound	10:56	P			Likely above ground
	CW	P25		Deanwood	Middle of platform	10:56	P			CW @ 10:57 Likely above ground
	CW	P25		Deanwood	Platform end #2 outbound	10:57	P			Likely above ground
	CW	P25		Deanwood	Entrance #2 outbound	10:57	P			Likely above ground
	CW	P25		Deanwood <-> Cheverly	Tunnel	10:59	P			Likely above ground

BLUE LINE

1 of 1

TESTED BY: CLYDE WILSON
JAMES WILLIAMS

Blue Line

Assumed direction: Franconia-Springfield -> Largo. Outbound is towards Franconia-Springfield. Inbound is towards Largo.

Date: 05-29-2015

	Tester	System	Talk		Location	Time	Pass/Fail (P/F)	DownLink		Comments/Issues
			Group	Station				UpLink RSSI	RSSI	
Benning Road	CW	P25		Stadium Armory <-> Benning Road	Tunnel	11:15	P			
	CW	P25		Benning Road	Entrance (Only One)	11:16	P			Likely above ground
	CW	P25		Benning Road	Platform end #1 Inbound	11:16	P			Likely above ground
	CW	P25		Benning Road	Middle of platform	11:16	P			Likely above ground
	CW	P25		Benning Road	Platform end #2 outbound	11:16	P			Likely above ground
	CW	P25		Benning Road <-> Capitol Heights	Tunnel	11:18	P			Likely above ground
Capitol Heights	CW	P25		Capitol Heights	Entrance (Only One)	11:20	P			Likely above ground
	CW	P25		Capitol Heights	Platform end #1 inbound	11:20	P			Likely above ground
	CW	P25		Capitol Heights	Middle of platform	11:20	P			Likely above ground
	CW	P25		Capitol Heights	Platform end #2 outbound	11:21	P			Likely above ground
	CW	P25		Capitol Heights <-> Addison Road	Tunnel	11:24	P			Likely above ground
	CW	P25		Capitol Heights <-> Addison Road	Tunnel	11:24	P			Likely above ground